

Calculating the distance between two points

Having derived the latitudes and longitudes of two points, you are now ready to calculate the distance between them.

First, copy the following address into your browser's address line:

<http://www.movable-type.co.uk/scripts/latlong.html>

A box appears which looks like the one below.*

Calculate distance and bearing between two Latitude/Longitude points using Haversine formula in JavaScript

<http://www.movable-type.co.uk/scripts/latlong.html>

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Calculate distance, bearing and more between Latitude/Longitude points

This page presents a variety of calculations for latitude/longitude points, with the formulæ and code fragments for implementing them.

All these formulæ are for calculations on the basis of a spherical earth (ignoring ellipsoidal effects) – which is accurate enough* for most purposes... [In fact, the earth is very slightly ellipsoidal; using a spherical model gives errors typically up to 0.3% – see notes for further details].

Enter the co-ordinates into the text boxes to try out the calculations. A variety of formats are accepted, principally:

- deg-min-sec suffixed with N/S/E/W (e.g. 40°44'55"N, 73 59 11W), or
- signed decimal degrees without compass direction, where negative indicates west/south (e.g. 40.7486, -73.9864):

Point 1: , Distance: **968.9** km

Point 2: , Initial bearing: **009°07'11"**

Final bearing: **011°16'31"**

Midpoint: **54°21'44"N, 004°31'50"W**

And you can [see it on a map](#) (aren't those Google guys wonderful!)

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As you can see, inside the rectangle are four boxes containing numbers and symbols. These are the boxes you need to clear and then refill with latitudes and longitudes from your log file.

(The remainder of this page is intentionally blank.)